**Problem Statement**

→ The assignment will contain 4 departments as four different object classes

                i) **Super Department**

               ii) **Admin Department**

               iii) **Hr Department**

               iv) **Tech Department**

→ Super Department class will be the **superclass** and all other departments **must** extend it.

→ **Super department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) isTodayAHoliday

departmentName will return “ Super Department “

getTodaysWork will return  “ No Work as of now”

getWorkDeadline will return “ Nil “

isTodayAHoliday will return “ Today is not a holiday”

→ **Admin department** will contain 3 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

departmentName will return “ Admin Department “

getTodaysWork will return “Complete your documents Submission”

getWorkDeadline will return “ Complete by EOD “

→ **Hr department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) doActivity

departmentName will return “ Hr Department “

getTodaysWork will return  “ Fill today’s worksheet and mark your attendance”

getWorkDeadline will return “ Complete by EOD “

doActivity “team Lunch”

→ **Tech department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) getTechStackInformation

departmentName will return “ Tech Department “

getTodaysWork will return  “ Complete coding of module 1”

getWorkDeadline will return “ Complete by EOD “

getTechStackInformation will return “core Java”

→ Driver class **Main** will be used to create objects of HrDepartment, TechDepartment, AdminDepartment

→ Each department will display all its functionalities.

→ Each department  will display whether today is a holiday or not with the help of the Super Department. (SuperDepartment will act as a super class for all the departments)

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**Expected Output**

 Welcome to Admin Department

Complete your documents submission

Complete by EOD

Today is not a Holiday

 Welcome to HR Department

team Lunch

Fill today’s timesheet and mark your attendance

Complete by EOD

Today is not a Holiday

 Welcome to Tech Department

Complete coding of Module 1

Complete by EOD

 Core Java

Today is not a Holiday

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Solution

package com.greatlearningassessment1;

class SuperDepartment

{

public String departmentName()

{

return "Super Department";

}

public String getTodaysWork()

{

return "No Work as of now";

}

public String getWorkDeadline()

{

return "Nil";

}

public String isTodayAHoliday()

{

return "Today is not a Holiday";

}

}

class AdminDepartment extends SuperDepartment

{

public String departmentName()

{

return "Admin Department";

}

public String getTodaysWork()

{

return "Complete your documents Submission";

}

public String getWorkDeadline()

{

return "Complete by EOD";

}

}

class HrDepartment extends SuperDepartment

{

public String departmentName()

{

return "HR Department";

}

public String getTodaysWork()

{

return "Fill today's timesheet and mark your attendance";

}

public String getWorkDeadline()

{

return "Complete by EOD";

}

public String doActivity()

{

return "team Lunch";

}

}

class TechDepartment extends SuperDepartment

{

public String departmentName()

{

return "Tech Department";

}

public String getTodaysWork()

{

return "Complete coding of module 1";

}

public String getWorkDeadline()

{

return "Complete by EOD";

}

public String getTechStackInformation()

{

return "core Java";

}

}

class Main

{

public static void main(String[] args)

{

AdminDepartment ad=new AdminDepartment();

System.***out***.println("Welcome to "+ad.departmentName());

System.***out***.println(ad.getTodaysWork());

System.***out***.println(ad.getWorkDeadline());

System.***out***.println(ad.isTodayAHoliday());

HrDepartment hr=new HrDepartment();

System.***out***.println("Welcome to "+hr.departmentName());

System.***out***.println(hr.doActivity());

System.***out***.println(hr.getTodaysWork());

System.***out***.println(hr.getWorkDeadline());

System.***out***.println(hr.isTodayAHoliday());

TechDepartment td=new TechDepartment();

System.***out***.println("Welcome to "+td.departmentName());

System.***out***.println(td.getTodaysWork());

System.***out***.println(td.getWorkDeadline());

System.***out***.println(td.getTechStackInformation());

System.***out***.println(td.isTodayAHoliday());

}

}

Error while compiling

Build path specifies execution environment JavaSE-17. There are no JREs installed in the workspace that are strictly compatible with this environment.